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| Morrison & Foerster 2000 Pennsylvania Avenue NW | | | ZHEN, LI B | | |
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Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Application No. | Applicant(s) | | | |
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| Office Action Summary | | 09/762,472 | EDER ET AL. | | | |
| | | Examiner | Art Unit | | | |
| | | Li B. Zhen | 2126 | | | |
| Period fo | The MAILING DATE of this communication apor Reply | pears on the cover sheet with the c | correspondence address | | | |
| THE - Exte - after - if the - if NC - Failt Any | ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b). | 136(a). In no event, however, may a reply be tirely within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE | nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133). | | | |
| Status | | | | | | |
| 1)🖂 | Responsive to communication(s) filed on 29 h | <u>March 2001</u> . | | | | |
| 2a) <u></u> ☐ | ☐ This action is FINAL . 2b) ☐ This action is non-final. | | | | | |
| 3)□ | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | |
| Disposit | ion of Claims | | | | | |
| 5)□ | | | | | | |
| Applicat | ion Papers | | | | | |
| 10)□ | The specification is objected to by the Examin The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E | cepted or b) objected to by the lead of a drawing(s) be held in abeyance. Section is required if the drawing(s) is objection | e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d). | | | |
| Priority (| under 35 U.S.C. § 119 | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | |
| | | • | | | | |
| Attachmen | t(s) e of References Cited (PTO-892) | 4) [] Interview 0 | (PTO 442) | | | |
| 2) 🔲 Notic 3) 🔯 Inform | e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date <u>2/7/2001</u> . | 4) | | | | |

Art Unit: 2126

DETAILED ACTION

1. Claims 1 - 11 are pending in the application.

Information Disclosure Statement

2. The information disclosure statement filed February 7, 2001 fails to comply with 37 CFR 1.98(a)(3) because it does not include a concise explanation of the relevance, as it is presently understood by the individual designated in 37 CFR 1.56(c) most knowledgeable about the content of the information, of each patent listed that is not in the English language. It has been placed in the application file, but the information referred to therein has not been considered. An explanation of relevance is not included for reference No. 3 and 4, which are not in the English language.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 5 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. Claim 7 recites the limitation "wherein the application" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Art Unit: 2126

6. Regarding claims 5 – 9, the phrase "signaling data and/or call data" renders the claim(s) indefinite because it is unclear as to whether signaling data or signaling data and call data or call data is exchanged.

- 7. Claim 7 recites the limitation "identical different command sequences" in lines 1 –
- 2. This limitation is indefinite because it is unclear as to whether the command sequences are identical or different. It is unclear as to how the command sequences can be identical and different at the same time.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 9. Claims 1 5 and 7 11 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Statutory Invention Registration No. H1,918 to Hoffpauir et al. [hereinafter Hoffpauir].
- 10. As to claim 1, Hoffpauir teaches a method for operating a terminal unit in an exchange [telecommunications system 14, Fig. 2; col. 9, lines 25 50], in which signaling for a first subscriber is carried out during execution of a first application

Art Unit: 2126

program [signaling application 56 provides the logic needed to provide signaling functionality; col. 13, lines 35 - 60] by a processor [call processor 40 may be implemented using a dedicated computer, such as a personal computer motherboard using an Intel Pentium microprocessor; col. 10, lines 17 – 46] contained in the terminal unit [call processor] wherein call processing between the first subscriber and a second subscriber is carried out during execution of a second application program [call processing application 54 includes various software objects... the BSC 50 is responsible for management of the BTSs 20 and their radio interfaces with subscriber units 22, including the allocation and release of radio channels; col. 14, lines 37 – 57], wherein signaling data [col. 19, line 1-25], generated during signaling, at a message interface [resource manager application 58 also provides an interface to resources of the resource assembly 60 for the signaling application 56 as well as other elements, such as the system controller application 94 and various elements of the NMS-S 70; col. 13, line 60 – col. 14, line 36] are transferred to the second application program [assembly 60 with respect to the call processor 40 and enables different applications of the call processor 40 to interface with resources of the resource assembly 60; col. 13, line 60 col. 14, line 36] by using an operating system for controlling the flow of the application programs [call processor 40 may also operate under the control of an operating system capable of processing real-time data; col. 10, lines 17 – 46],

and wherein call data, generated during call processing [call processing application 54; col. 14, lines 37 – 57], at the message interface [resource manager

Application/Control Number: 09/762,472

Art Unit: 2126

application 58; col. 14, lines 37 - 57] are transferred to the first application program by using the operating system [col. 10, lines 17 - 46].

11. As to claim 2, Hoffpauir teaches a method for operating terminal unit in an exchange [col. 9, lines 25 – 50], in which signaling is carried out with the aid of a further exchange by processor contained in the terminal unit [col. 16, line 55 – col. 17, line 5 and col. 17, lines 30 – 38] during execution of a first application program [signaling application 56 provides the logic needed to provide signaling functionality; col. 13, lines 35 – 60], wherein call processing between the two exchanges is carried out during execution of a second application program [call processing application 54 includes various software objects; col. 14, lines 37 – 57], wherein signaling data [col. 19, line 1 – 25], generated during signaling, at a message interface [resource manager application 58; col. 13, line 60 – col. 14, line 36] are transferred to the second application program [col. 13, line 60 – col. 14, line 36] by using an operating system for controlling the flow of the application programs [col. 10, lines 17 – 46],

and wherein call data, generated during call processing [call processing application 54; col. 14, lines 37 - 57], the message interface [resource manager application 58; col. 14, lines 37 - 57] are transferred to the first application program using operating system [col. 10, lines 17 - 46].

Art Unit: 2126

12. As to claim 3, Hoffpauir teaches the generated signaling data or the call data contain messages with a prescribed structure [carry data in a predetermined format, such as an E1 data format; col. 17, line 60 – col. 18, line 9].

- 13. As to claim 4, Hoffpauir teaches the messages contain receiver identifier [name of the receiver software object; col. 10, lines 47 57], or an address reference on a data block with data to be transmitted, or a message identifier for distinguishing the different messages, or a message type identifier for identifying the type of message, or data on the application program generating the message.
- 14. As to claim 5, Hoffpauir teaches the signaling data and/or the call data contain a data block, and wherein, in addition to data to be transmitted, the data block preferably contains further data with the aid of which the data block can be assigned to one more application programs [and signaling information may be exchanged and is controlled and monitored by the call processor 54; col. 16, line 55 col. 17, line 5].
- 15. As to claim 7, Hoffpauir teaches two second application programs with identical different command sequences are used [call processing application 54 includes various software objects; col. 14, lines 37 57], wherein the application program exchanges signaling data and/or call data with the second application programs via a common or a plurality of message interfaces [BSC 50 is responsible for management of the BTSs 20 and their radio interfaces with subscriber units 22; col. 14, lines 37 57], and wherein

Application/Control Number: 09/762,472

Art Unit: 2126

the same command sequence preferably used in the case of second application programs with identical command sequences [col. 14, lines 5 – 57].

16. As to claims 8 and 9, Hoffpauir teaches a terminal [call processor; col. 10, lines 17 – 46] for an exchange [telecommunications system 14, Fig. 2; col. 9, lines 25 – 50], in particular for carrying out method as claimed in claim 1 comprising,

one subscriber line [telecommunications lines; col. 17, lines 57 - 67] for connecting a first subscriber [subscriber unit 22; col. 4, lines 43 - 54],

one further connection for setting up a transmission channel to a second subscriber [one or more of the BTSs 20 and subscriber units 22, a wireless telecommunications switch that may generally be defined to include the remaining components; col. 5, lines 5-23],

application programs for executing switching operations, to which signaling at the subscriber line and method steps for call processing belong [switching module 64 may be implemented in software; col. 17, lines 5 – 39],

wherein signaling data generated during signaling is used when processing a call, or call data generated during call processing is used when signaling [col. 19, line 1 – 25],

and further comprising an operating system controlling the flow of the application programs [col. 10, lines 17 - 46],

Art Unit: 2126

wherein the signaling data and/or the call data [col. 14, lines 37 - 57] are transferred to at least one message interface [resource manager application 58; col. 14, lines 37 - 57] by using the operating system [col. 10, lines 17 - 46].

- 17. As to claim 10, Hoffpauir teaches signaling is executed by a first application program [signaling application 56 provides the logic needed to provide signaling functionality; col. 13, lines 35 60], and wherein call processing is executed by a second application program [call processing application 54 includes various software objects...the BSC 50 is responsible for management of the BTSs 20 and their radio interfaces with subscriber units 22, including the allocation and release of radio channels; col. 14, lines 37 57].
- 18. As to claim 11, Hoffpauir teaches an exchange comprising a terminal unit [telecommunications system 14, Fig. 2; col. 9, lines 25 50].

Claim Rejections - 35 USC § 103

- 19. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 2126

20. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hoffpauir in view of U.S. Patent No. 6,516,355 to Hartmann et al. [hereinafter Hartmann].

21. As to claim 6, Hoffpauir the first application programs exchange signaling data and/or call data with second application programs via a common or a plurality of message interfaces [BSC 50 is responsible for management of the BTSs 20 and their radio interfaces with subscriber units 22; col. 14, lines 37 - 57] and wherein that same command sequence preferably executed during processing the second application programs [col. 14, lines 5 - 57]. Hoffpauir does not specifically teach support for different protocols.

However, Hartmann teaches two first application programs are used for signaling with the aid of different protocols [switching engines according to the invention all communicate with a generic message protocol of the invention and each switching engine communicates with a particular brand of digital switch; col. 5, line 65 – col. 6, line 19].

22. It would have been obvious to a person of ordinary skill in the art at the time of the invention to apply the teaching of application programs for signaling with the aid of different protocols as taught by Hartmann to the invention of Hoffpauir because this provides a generic API for controlling a digital switch and a number of switching engines for controlling different switches [col. 9, lines 58 – 63 of Hartmann].

Art Unit: 2126

Conclusion

23. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent No. 6,119,187 to Hebert teaches a universal host-to-switch application program interface (API) utilizing a generic message format for performing call control processing and capable of being customized to meet telecommunications application and network signaling protocol requirements.

U.S. Patent No. 6,311,238 to Hebert teaches a standardized host-to-switch application program interface (API) for performing call control processing, capable of being customized to meet telecommunications application and network signaling protocol requirements.

- U.S. Patent No. 6,745,228 to Riddle teaches a method and apparatus for listening on multiple network/conferencing protocols and/or interfaces.
- U.S. Statutory Invention Registration No. H1,895 teaches an application provider and method for communication between a first sub-system and a second sub-system of a common node.
- U.S. Statutory Invention Registration No. H1,897 teaches a merged operations and maintenance center.
- U.S. Statutory Invention Registration No. H1,896 teaches a network management system server of a telecommunications system.

Art Unit: 2126

24. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Li B. Zhen whose telephone number is (571) 272-3768. The examiner can normally be reached on Mon - Fri, 8:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Li B. Zhen Examiner Art Unit 2126

lbz

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